AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

Claims 1 to 27. (Canceled).

28. (Currently Amended) The atomization system of claim ~~35~~ 40, wherein the metering device includes at least one opening for metering in fuel.

29. (Currently Amended) The atomization system of claim ~~35~~ 40, wherein the metering device includes a fuel injector that ejects fuel in a manner that is metered.

30. (Previously Presented) The atomization system of claim 29, wherein the fuel injector ejects fuel in a manner that is swirled.

31. (Previously Presented) The atomization system of claim 30, wherein the fuel injector is a high pressure fuel injector operating with fuel pressures of 20 to 150 bar.

32. (Currently Amended) The atomization system of claim ~~35~~ 40, wherein the temperature-adjusted substance stream flows through the supporting device.

Claims 33 to 38. (Canceled).

39. (Currently Amended) The atomization system of claim ~~37~~ 46, wherein the supporting device includes a primary housing, through which the temperature adjusted substance stream flows, and an upper housing part not in direct contact with the primary housing.

40. (Currently Amended) ~~The~~ An atomization ~~system of claim 39,~~ for charging a chemical reformer for obtaining hydrogen, comprising:

a supporting device; and

at least one metering device accommodated in the supporting device for metering fuel into a temperature-adjusted substance stream, wherein the metering device introduces the fuel directly into the temperature-adjusted substance stream without interpolation of a supply line;

wherein the metering device is thermally insulated from the supporting device;

further comprising an insulating body, the metering device being thermally insulated by the insulating body;

wherein the metering device is insulated from the insulating body by a first gap;

wherein the supporting device includes a primary housing, through which the temperature adjusted substance stream flows, and an upper housing part not in direct contact with the primary housing; and

wherein the upper housing part is insulated from the primary housing by a second gap.

41. (Currently Amended) The atomization system of claim ~~39~~ 40, wherein the upper housing part only directly contacts the insulating body.

42. (Currently Amended) The atomization system of claim ~~39~~ 40, further comprising:

fixing elements which mutually lock the housing and the upper housing part in place.

43. (Currently Amended) ~~The~~ An atomization system ~~of claim 42,~~ for charging a chemical reformer for obtaining hydrogen, comprising:

a supporting device; and

at least one metering device accommodated in the supporting device for metering fuel into a temperature-adjusted substance stream, wherein the metering device introduces the fuel directly into the temperature-adjusted substance stream without interpolation of a supply line;

wherein the metering device is thermally insulated from the supporting device;

further comprising an insulating body, the metering device being thermally insulated by the insulating body;

wherein the metering device is insulated from the insulating body by a first gap;

wherein the supporting device includes a primary housing, through which the temperature adjusted substance stream flows, and an upper housing part not in direct contact with the primary housing;

further comprising fixing elements which mutually lock the housing and the upper housing part in place and

wherein the fixing elements are thermally insulated from at least one of the primary housing and the upper housing part by further insulating elements.

44. (Previously Presented) The atomization system of claim 43, wherein the further insulating elements are at least partly made of a ceramic material.

45. (Currently Amended) ~~The~~ An atomization ~~system of claim 39,~~ for charging a chemical reformer for obtaining hydrogen, comprising:

a supporting device; and

at least one metering device accommodated in the supporting device for metering fuel into a temperature-adjusted substance stream, wherein the metering device introduces the fuel directly into the temperature-adjusted substance stream without interpolation of a supply line;

wherein the metering device is thermally insulated from the supporting device;

further comprising an insulating body, the metering device being thermally insulated by the insulating body;

wherein the metering device is insulated from the insulating body by a first gap;

wherein the supporting device includes a primary housing, through which the temperature adjusted substance stream flows, and an upper housing part not in direct contact with the primary housing; and

wherein only the upper housing part supports the metering device.

46. (Currently Amended) ~~The~~ An atomization ~~system of claim 39,~~ for charging a chemical reformer for obtaining hydrogen, comprising:

a supporting device; and

at least one metering device accommodated in the supporting device for metering fuel into a temperature-adjusted substance stream, wherein the metering device introduces the fuel directly into the temperature-adjusted substance stream without interpolation of a supply line;

wherein the metering device is thermally insulated from the supporting device;

further comprising an insulating body, the metering device being thermally insulated by the insulating body;

wherein the metering device is insulated from the insulating body by a first gap;

wherein the supporting device includes a primary housing, through which the temperature adjusted substance stream flows, and an upper housing part not in direct contact with the primary housing;

further comprising[[:

]] a seal between the metering device and the upper housing part that seals the first gap.

47. (Previously Presented) The atomization system of claim 46, wherein the seal is at least partly made of an elastomer.

48. (Currently Amended) The atomization system of claim ~~35~~ 40, wherein the metering device meters fuel into a mixing area.

49. (Currently Amended) ~~The~~ An atomization system ~~of claim 48,~~ for charging a chemical reformer for obtaining hydrogen, comprising:

a supporting device; and

at least one metering device accommodated in the supporting device for metering fuel into a temperature-adjusted substance stream, wherein the metering device introduces the fuel directly into the temperature-adjusted substance stream without interpolation of a supply line;

wherein the metering device is thermally insulated from the supporting device;

further comprising an insulating body, the metering device being thermally insulated by the insulating body; and

wherein the insulating body is at least partly made of a ceramic material;

wherein the metering device is insulated from the supporting device by a first gap;

wherein the metering device meters fuel into a mixing area; and

wherein the temperature-adjusted substance stream is fed one of radially and at least partly tangentially into the mixing area through a supply line.

50. (Previously Presented) The atomization system of claim 49, wherein the primary temperature-adjusted substance stream fed from the supply line into the mixing area is directed away from the metering device as it enters the mixing area.

51. (Currently Amended) The atomization system of claim ~~39~~ 40, wherein the primary housing includes a recess for inhibiting heat conduction.

Claims 52 and 53. (Canceled).